INDEX TO VOLUME 31

Abrahamsen, Leo R., article by 92
Aceria slykhuisi (Acarina: Eriophyidae) 233
Acronicta Ochsenheimer, The *theodora* group of, and a new name for *Anytus* Grote (Lepidoptera: Noctuidae) 154
Adkisson, Perry L., article by 284
Aedes (Ochlerotatus) barri, a new species of mosquito from Minnesota (Diptera: Culicidae) 34
Afifi, Saad E. D., article by 257
Allen, Richard K., article by 222
Anopheles barberi Coquillett, The discovery of *Orthopodomyia signifera* (Coquillett) and, in Minnesota (Diptera: Culicidae) 92
Anytus Grote (Lepidoptera: Noctuidae) 154
Aspirator, insect, An inexpensive unit for converting a vacuum cleaner to an 284
Atyeo, Warren T., article by 173
Augochlorodes, a new genus of Halictinae from Brasil (Hymenoptera: Apoidea) 53
Beamer, Raymond Hill, article about 57
Beamerella and *Kaaia*, two new genera of chiggers from South America (Acarina: Trombiculidae) 71
Beer, Robert E., article by 188
Bonzia, The genus, in the New World (Acarina: Cunaxidae) 173
Brennan, James M., article by 71
Brezner, Jerome, article by 241
Bugbee, Robert E., article by 197
Bumblebee, A, thieving from a honeybee hive 286
Byers, George W., article by 213
Caeculus cremnicolus (Acarina: Caeculidae) 107
Carpenter bees, The, of the eastern Pacific oceanic islands (Hymenoptera: Apoidea) 249
Chiggers (*Beamerella* and *Kaaia*) 71
Comparative study of the foregut of several aquatic Hemiptera, A, ...138
Conophorus, The genus, in North America (Diptera: Bombyliidae) 1
Corn earworm moth repellents 200
Corn leaf aphid, *Rhopalosiphum maidis* (Fitch), Effect of the feeding of the four biotypes of, on susceptible white Martin sorghum and Spartan barley plants 93
Cryptobates Esaki, A new species of, from Burma (Hemiptera: Gerridae) 246
Culicoides, New records, synonymy, and species of Texas (Diptera: Heleidae) 81
Culiseta (Culicella) minnesotae Barr, A description of the larva and pupa of, (Diptera: Culicidae) 47
Cuterebrid, rabbit, Concerning a, the larvae of which may penetrate the human skin (Diptera: Cuterebridae) 67
Doering, Kathleen C., article by 101
Edmunds, George F., Jr., article by 222
Emerson, K. C., article by 239
Enns, Wilbur R., articles by 107, 241
Ephemerella, A new species of, from Georgia (Ephemeroptera: Ephemerellidae) 222
Eriophyid mite, A new, from Kansas ..233
Esakia Lundblad, The genus, with two species (Heteroptera: Gerridae) 193
Eurytoma Illiger, A new species of, parasitic on the Nantucket pine moth, *Rhyacionia frustrana* (Comstock) and the European pine shoot moth, *R. buoliana* (Schiffermuller) (Hymenoptera: Eurytomidae; Lepidoptera: Olethreutidae) 197
Gerridae, Two new genera of, with the description of a new species 113
Gray, Thomas M., article by 257
Halictid bees, Observations on the behavior of Brazilian, II: *Paraxystoglossa jocasta* 129
Hall, C. C., article by 233
Hardy, D. Elmo, article by 76
Hesperapis, Sleeping habits of males of, (Hymenoptera: Melittidae) 273
Heterothrips, A new species and a new record of, from Kansas (Thysanoptera: Heterothripidae) 275
Horvathinia, A new species of, from Bolivia (Belostomatidae: Hemiptera) 237
Houseflies, Hot water preparation of adult, for student use 56
House fly, Reproductive potential in relatively isolated, populations following repeated insecticide applications 257
Howe, William H., article by 211
Hungerford, H. B., articles by 57, 113, 193, 246
Hurd, Paul D., article by 249
Hysteropterum, A new species of, from grape (Issidae, Fulgoroidea, Homoptera) 101
Hysteropterum beameri Doering, Notes on the biology of a mud egg-case making fulgorid, (Homoptera: Fulgoridae) 104
Jones, Robert H., article by 81
Kaaia (Acarina: Trombiculidae) 71
Knutson, Herbert, article by 257
LaBerge, Wallace E., article by 266
Lange, Rudolf B., article by 129

INDEX TO VOLUME 31 CONTINUED

Lauck, David R., article by 237
Lawson, Fred A., articles by 56, 184
Lepidoptera, Some new state, records for Kansas 211
Lestrimelitta cubiceps, A contribution to the bionomics of, (Hymenoptera: Apidae) 203
Linsley, E. G., article by 273
MacSwain, J. W., article by 273
Mallophaga, A new species of, from the band-tailed pigeon 239
Marks, Edwin P., article by 138
Matsuda, Ryuichi, articles by 113, 193, 246
Mecoptera, Descriptions and distributional records of American, ...213
Michener, Charles D., article by 129
Mosquitoes, Types of, described by C. F. Adams in 1903 (Diptera: Culicidae) 235
Moure, J. S., article by 53
Mulkern, Gregory B., article by 184
Neosophira Hendel, A review of the genus (Diptera: Tephritidae) 76
Orthopodomyia signifera (Coquillett), The discovery of, and *Anopheles barberi* Coquillett in Minnesota (Diptera: Culicidae) 92
Painter, Reginald H., article by 93
Paper electrophoresis, Preliminary studies utilizing, as a tool in insect systematics 241
Paroxystoglossa jocasta (Hymenoptera: Apoidea) 129
Pathak, M. D., article by 93
Penner, Lawrence R., article by 67
Philip, Cornelius B., article by 177
Phyllophaga, Faunal affinities of Arizona, with notes and descriptions of new species (Coleoptera: Scarabaeidae) 158
Portugal-Araújo, Virgilio de, article by 203
Price, Roger D., articles by 47, 92
Priddy, Ralph B., article by 1
Prozercon Sellnick (Acarina: Zerconidae) 125
Rake-legged mite, A new species of, from Missouri (Acarina: Caeculidae) 107
Reinhard, H. J., articles by 225, 277
Reproductive potential in relatively isolated house fly populations following repeated insecticide applications 257
Rhopalosiphum maidis (Fitch), Effect of the feeding of the four biotypes of corn leaf aphid, on susceptible white Martin sorghum and Spartan barley plants 93
Rhyacionia frustrana (Comstock) (Lepidoptera: Olethreutidae) 197
Rhyacionia buoliana (Schiffermuller) (Lepidoptera: Olethreutidae) 197
Riemann, John G., article by 256
Roberts, James E., article by 200
Rolston, L. H., article by 200
Rueger, Myrtle E., article by 34
Sakagami, Shôichi F., article by 286
Sanderson, Milton W., article by 158
Schlinger, Evert I., article by 104
Sellnick, Max, article by 125
Sinha, R. N., article by 118
Stannard, Lewis J., Jr., article by 275
Stone, Alan, article by 235
Svastra Holmberg, Notes on the North and Central American bees of the genus, (Hymenoptera: Apidae) 266
Tabanidae, Five new species of, (Diptera) from Mexico and Brazil 177
Tachinidae, New genera and species of North American, (Diptera) 225
Tachinidae, North American, (Diptera) 277
Tarsonemella Hirst, The genus, with description of a new species (Acarina: Tarsonemidae) 188
Tetragonocephala flava Crawford, Notes on the host and biology of, (Homoptera: Psyllidae) 256
Theodora group, The, of *Acronicta* Ochsenheimer and a new name for *Anytus* Grote (Lepidoptera: Noctuidae) 154
Todd, E. L., article by 154
Transplantation of integumental tissue among several species of cockroaches (Blattidae: Orthoptera) 184
Tribolium castaneum Herbst, The alimentary canal of the adult of, (Coleoptera: Tenebrionidae) 118
Ward, Ronald A., article by 239
Wirth, Willis W., article by 81
Zercon C. L. Koch, Remarks on the genus, with descriptions of two new species of the genus *Prozercon* Sellnick (Acarina: Zerconidae) 125

93
197
197
256
200
200
34
286
158
104
125
118
275
235
266
177
225
277
188
256
154
154
184
118
239
81
125